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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/705,733	11/06/2000	Kuan-Chou Chen	WOO 108	7861
23995	7590 08/26/2004		EXAMINER	
RABIN & Berdo, PC			LOWE, MICHAEL S	
1101 14TH STREET, NW SUITE 500			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			3652	

**DATE MAILED: 08/26/2004** 

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>						
	Application No.	Applicant(s)				
Office Action Common to	09/705,733	CHEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	M. Scott Lowe	3652				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 28 M.	<u>ay 2004</u> .					
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
<ul> <li>4)  Claim(s) 1-16 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdraw</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1,2,4-7,10 and 13 is/are rejected.</li> <li>7)  Claim(s) 3,8,9,11,12 and 14-16 is/are objected</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	to.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>06 November 2000</u> is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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### Claim Objections

Claim 1 is objected to because of the following informalities: on page 5, line 3 of the amended claim there is a "y" after "carrier" which appears to be a typo. Appropriate correction is required.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1,2,4-7,10,13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nering (US 6,082,951) in view of Huang (US 6,060,721) and Bacchi (US 6,281,516).

Re claim 1, Nering (figure 3) teaches all the claim limitations (FOUP 60, backboard 16, carrier 62, slides (figure 3), latch 76,107, lift (figure 3)) except the detecting pin and protruding wafer detector. Huang teaches detecting pin 46 in order to reliably detect if the cassette is properly oriented (column 2,paragraph 2). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Nering by Huang to have a detecting pin in order to reliably detect if the cassette is properly oriented. Bacchi (column 10, 4<sup>th</sup> paragraph) teaches a protruding wafer sensor 346a in order to prevent protruding wafers from being clipped when the door is moved. It would have been obvious to one of ordinary skill in the art at the time

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the invention was made to have modified Nering by Bacchi to have a protruding wafer sensor in order to prevent protruding wafers from being clipped when the door is moved.

Re claim 2, Nering (figure 3) teaches headstock gear 64 for opening the pod cover.

Re claim 4, Nering (figure 3) teaches a sliding control mechanism with a rail and threaded rod for moving the carrier.

Re claim 5, Nering teaches (figure 6) a round hole for the locking bolt 76.

Re claim 6, Nering teaches (figure 6) a plurality of positioning pins 107.

Re claim 7, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Nering to a plurality of detecting pins rather than just one pin in or to have backup detectors in case some detectors malfunctioned.

Re claim 10, Nering teaches (see figures) a gasket (not numbered) on the backboard 16.

Re claim 13, Nering teaches roller 105.

## Allowable Subject Matter

Claims 3, 8, 9, 11,12,14,15,16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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#### Conclusion

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Scott Lowe whose telephone number is 703-305-1940. The examiner can normally be reached on 6:30am-4:30pm M,Tu,Th,F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen Lillis can be reached on 703-308-3248. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

msl

EILEEN D. LILLIS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600

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